



SEQUENCE LISTING

MAY 18 2000  
TECH CENTER 1600/2900

<110> MEHENS, LYDIE  
LUHRMANN, REINHARD GEORGE  
UNION, ANN  
RAYMACKERS, JOSEPH

<120> METHYLATED, SMD HOMOLOGOUS PEPTIDES, REACTIVE WITH THE  
ANTIBODIES FROM SERA OF LIVING BEINGS AFFECTED WITH  
SYSTEMIC LUPUS ERYTHEMATOSUS

<130> INNS011---

<140> 09/297,981

<141> 1999-05-10

<160> 30

<170> PatentIn Ver. 2.1

<210> 1

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (2)..(18)

<223> "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 1

Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa  
1 5 10 15

Gly Xaa Gly

<210> 2

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<220>

<221> PEPTIDE

<222> (2)..(10)

<223> "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE

<400> 2

Ala Xaa Gly Xaa Gly Xaa Gly Met Gly Xaa Gly  
1 5 10

<210> 3  
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<220>  
<223> Description of Artificial Sequence: Synthetic

<220>  
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<222> (7) .. (15)  
<223> "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE

<400> 3  
Lys Ala Gln Val Ala Ala Xaa Gly Xaa Gly Xaa Gly Met Gly Xaa Gly  
1 5 10 15

Asn

<210> 4  
<211> 38  
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<223> "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE

<400> 4  
Asp Val Glu Pro Lys Val Lys Ser Lys Lys Arg Glu Ala Val Ala Gly  
1 5 10 15

Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly  
20 25 30

Xaa Gly Gly Pro Arg Arg  
35

<210> 5  
<211> 16  
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<223> "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE

<400> 5

Asp Asn His Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Gly Gly  
 1 5 10 15

<210> 6  
 <211> 15  
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 <222> (3) .. (13)  
 <223> "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE

<400> 6  
 Gly Gly Xaa Gly Xaa Gly Gly Ser Gly Gly Xaa Gly Xaa Gly Gly  
 1 5 10 15

<210> 7  
 <211> 12  
 <212> PRT  
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<220>  
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<220>  
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 <222> (4) .. (10)  
 <223> "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE

<400> 7  
 Glu Arg Ala Xaa Gly Xaa Gly Xaa Gly Xaa Gly Glu  
 1 5 10

<210> 8  
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 <212> PRT  
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<220>  
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<220>  
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 <222> (6) .. (44)  
 <223> "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE

<400> 8  
 Gly Gly Gln Gln Asp Xaa Gly Gly Xaa Gly Xaa Gly Gly Gly Gly Gly  
 1 5 10 15

Tyr Asn Xaa Ser Ser Gly Gly Tyr Glu Pro Xaa Gly Xaa Gly Gly Gly  
 20 25 30

Xaa Gly Gly Xaa Gly Gly Met Gly Gly Ser Asp Xaa Gly Gly  
35 40 45

<210> 9  
<211> 18  
<212> PRT  
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<220>  
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<220>  
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<222> (6) .. (11)  
<223> "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE

<400> 9  
Gly Gly Gln Gln Asp Xaa Gly Gly Xaa Gly Xaa Gly Gly Gly Gly Gly  
1 5 10 15

Tyr Asn

<210> 10  
<211> 26  
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<222> (7) .. (24)  
<223> "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE

<400> 10  
Ser Gly Gly Tyr Glu Pro Xaa Gly Xaa Gly Gly Gly Xaa Gly Gly Xaa  
1 5 10 15

Gly Gly Met Gly Gly Ser Asp Xaa Gly Gly  
20 25

<210> 11  
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<220>  
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<222> (4) .. (15)  
<223> "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE

<400> 11

Asp Phe Asn Xaa Gly Gly Gly Asn Gly Xaa Gly Gly Xaa Gly Xaa Gly  
1 5 10 15

Gly

<210> 12

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<220>

<221> PEPTIDE

<222> (4) .. (21)

<223> "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE

<400> 12

Asp Phe Asn Xaa Gly Gly Gly Asn Gly Xaa Gly Gly Xaa Gly Xaa Gly  
1 5 10 15

Gly Pro Met Gly Xaa Gly Gly Tyr Gly Gly Gly Gly Ser  
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<210> 13

<211> 38

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic

<220>

<221> PEPTIDE

<222> (4) .. (34)

<223> "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE

<400> 13

Gly Asp Asp Xaa Xaa Gly Xaa Gly Gly Tyr Asp Xaa Gly Gly Tyr Xaa  
1 5 10 15

Gly Xaa Gly Gly Asp Xaa Gly Gly Phe Xaa Gly Gly Xaa Gly Gly Gly  
20 25 30

Asp Xaa Gly Gly Phe Gly  
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<210> 14

<211> 14

<212> PRT

<213> Artificial Sequence

<220>  
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<220>  
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<222> (4)..(12)  
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<400> 14  
Gly Asp Asp Xaa Xaa Gly Xaa Gly Gly Tyr Asp Xaa Gly Gly  
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<210> 15  
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<220>  
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<222> (4)..(22)  
<223> "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE

<400> 15  
Gly Gly Tyr Xaa Gly Xaa Gly Gly Asp Xaa Gly Gly Phe Xaa Gly Gly  
1 5 10 15

Xaa Gly Gly Gly Asp Xaa Gly Gly Phe Gly  
20 25

<210> 16  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 16  
Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg  
1 5 10 15

Gly Arg Gly

<210> 17  
<211> 38  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 17

Asp Val Glu Pro Lys Val Lys Ser Lys Lys Arg Glu Ala Val Ala Gly  
1 5 10 15

Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly  
20 25 30

Arg Gly Gly Pro Arg Arg  
35

<210> 18  
<211> 11  
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<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 18  
Ala Arg Gly Arg Gly Arg Gly Met Gly Arg Gly  
1 5 10

<210> 19  
<211> 23  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 19  
Lys Ala Gln Val Ala Ala Arg Gly Arg Gly Arg Gly Met Gly Arg Gly  
1 5 10 15

Asn Ile Phe Gln Lys Arg Arg  
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<210> 20  
<211> 46  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 20  
Gly Gly Gln Gln Asp Arg Gly Gly Arg Gly Arg Gly Gly Gly Gly  
1 5 10 15

Tyr Asn Arg Ser Ser Gly Gly Tyr Glu Pro Arg Gly Arg Gly Gly Gly  
20 25 30

Arg Gly Gly Arg Gly Gly Met Gly Gly Ser Asp Arg Gly Gly  
35 40 45

<210> 21

<211> 18  
<212> PRT  
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<223> Description of Artificial Sequence: Synthetic

<400> 21

Gly Gly Gln Gln Asp Arg Gly Gly Arg Gly Arg Gly Gly Gly Gly Gly  
1 5 10 15

Tyr Asn

<210> 22  
<211> 26  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 22

Ser Gly Gly Tyr Glu Pro Arg Gly Arg Gly Gly Gly Arg Gly Gly Arg  
1 5 10 15

Gly Gly Met Gly Gly Ser Asp Arg Gly Gly  
20 25

<210> 23  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 23

Asp Phe Asn Arg Gly Gly Gly Asn Gly Arg Gly Gly Arg Gly Arg Gly  
1 5 10 15

Gly

<210> 24  
<211> 29  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 24

Asp Phe Asn Arg Gly Gly Gly Asn Gly Arg Gly Gly Arg Gly Arg Gly  
1 5 10 15

55

B



Gly Pro Met Gly Arg Gly Gly Tyr Gly Gly Gly Gly Ser  
20 25

<210> 25  
<211> 38  
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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 25  
Gly Asp Asp Arg Arg Gly Arg Gly Gly Tyr Asp Arg Gly Gly Tyr Arg  
1 5 10 15

Gly Arg Gly Gly Asp Arg Gly Gly Phe Arg Gly Gly Arg Gly Gly Gly  
20 25 30

Asp Arg Gly Gly Phe Gly  
35

<210> 26  
<211> 14  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic

<400> 26  
Gly Asp Asp Arg Arg Gly Arg Gly Gly Tyr Asp Arg Gly Gly  
1 5 10

<210> 27  
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<220>  
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<400> 27  
Gly Gly Tyr Arg Gly Arg Gly Gly Asp Arg Gly Gly Phe Arg Gly Gly  
1 5 10 15

Arg Gly Gly Gly Asp Arg Gly Gly Phe Gly  
20 25

<210> 28  
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<212> PRT  
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<400> 28

Asp Asn His Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Gly Gly  
1 5 10 15

<210> 29

<211> 15

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 29

Gly Gly Arg Gly Arg Gly Gly Ser Gly Gly Arg Gly Arg Gly Gly  
1 5 10 15

<210> 30

<211> 12

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 30

Glu Arg Ala Arg Gly Arg Gly Arg Gly Arg Gly Glu  
1 5 10